

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SOCS-5 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human SOCS-1, -2, -3, -6, and -7 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SOCS-5 Met1-Lys536 Accession # O75159
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

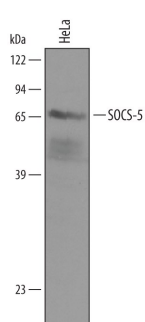
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below

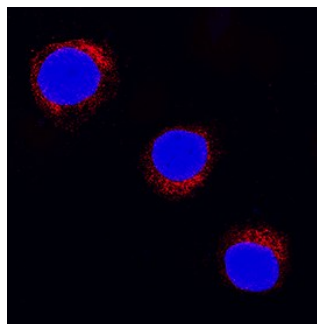
DATA

Western Blot



Detection of Human SOCS-5 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line. PVDF membrane was probed with 1 µg/mL of Goat Anti-Human SOCS-5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4796) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for SOCS-5 at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunocytochemistry



SOCS-5 in Jurkat Human Cell Line. SOCS-5 was detected in immersion fixed Jurkat human acute T cell leukemia cell line using Goat Anti-Human SOCS-5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF4796) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SOCS-5 (Suppressor of cytokine signaling 5; also CIS-6) is a 55-60 kDa member of the SOCS family of proteins. It is an SH2-domain containing cytoplasmic adaptor protein expressed by Th1 cells that is known to reduce the expression of the EGF receptor and block signaling by the IL-4 Rα chain. Human SOCS-5 is 536 amino acids (aa) in length. It contains one SH2 domain (aa 381-476) and a SOCS box (aa 471-520) that mediates interaction with E3 ubiquitin ligase complexes. Full-length SOCS-5 is 94% aa identical to mouse SOCS-5.